

The 508<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 11<sup>th</sup> August, 2021 under the Chairmanship of Dr. Praveen Chandra Dubey for the projects / issues received from SEIAA. The following members attended the meeting through video conferencing -

1. Shri Raghvendra Shrivastava, Member.
2. Prof. (Dr.) Rubina Chaudhary, Member
3. Dr. A. K. Sharma, Member.
4. Prof. Anil Prakash, Member.
5. Prof. (Dr.) Alok Mittal, Member
6. Dr. Jai Prakash Shukla, Member.
7. Dr. Ravi Bihari Srivastava, Member.
8. Shri A.A. Mishra, Member Secretary.

The Chairman welcomed all the members of the Committee and thereafter agenda items were taken up for deliberations.

1. **Case No 8431/2021 M/s Cherry Paints & Polymers Pvt. Ltd, 23A, Sector-F, Sanwer Road, Ind. Estate, Dist. Indore, MP - 452015 Prior Environment Clearance for Expansion project of Resins, Paints & Varnishes at Plot No. 23-A, Sector-F, Industrial Area, Sanwer Road, Dist. Indore (MP) Products Quantity (MT/Annum) : 1. Synthetic Resin (Alkyd Resin & Maleic/ Phenolic resin) 900 to 4600 Total after Expansion - 5500 MT/Annum. 2. Paint & Varnishes Total 450 to 7050 Total after Expansion - 7500 MT/Annum. Total after Expansion 5500 + 7500 = 13000 MT/Annum. Cat. 5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk. Env. Consultant:Gurang Environmental Solution Pvt. Limited, Jaipur.**

This is case of Prior Environment Clearance for Expansion project of Resins, Paints & Varnishes at Plot No. 23-A, Sector-F, Industrial Area, Sanwer Road, Dist. Indore (MP) Products Quantity (MT/Annum) : 1. Synthetic Resin (Alkyd Resin & Maleic/ Phenolic resin) 900 to 4600 Total after Expansion - 5500 MT/Annum. 2. Paint & Varnishes Total 450 to 7050 Total after Expansion - 7500 MT/Annum. Total after Expansion 5500 + 7500 = 13000 MT/Annum. Cat. 5(f).

The case was scheduled for the presentation in 495th date 01/4/21 and 497th dated 5/4/21 but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Since the tenure of SEAC will be over

on 09th April, 2021 and all such cases which are pending at SEAC will become category-I cases in the absence of SEAC. Thus case file is being sent to SEIAA for onward necessary action please. The case was discussed in 678<sup>th</sup> SEIAA meeting dated 12/7/21 and recorded that:-

*The case was scheduled for the presentation in an 495<sup>th</sup> dated 01/4/21 and 497<sup>th</sup> dated 5/4/21 but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation.*

In context of above the case was delist from MPSEIAA. PP vide letter dtd. Nil received in SEIAA office on 23/6/21 requested to relist the case by showing his interest to present the case. Therefore, it has been decided to relist the case and send the technical file to SEAC for appraisal.

The case was presented by the PP and their consultant wherein following details were submitted by PP:

Cherry Paint & Polymers Pvt. Ltd. is a working unit at Plot No. 23-A, Sector-F, Industrial Area Sanwer Road, Indore, Dist: Indore, Madhya Pradesh - 452010. Unit is currently engaged in manufacturing of various synthetic Resins, Paint & Varnishes. Current production capacity is 1350 MT/Annum. After expansion, capacity will be increased up to 13000 MT/Annum. Because of high market demand, the project proponent is willing to produce synthetic resin. The products proposed for expansion are as follows:

Sl. No.	Name of products	Quantity (MT/annum)		
1.	Synthetic Resin (Alkyd Resin & Maleic/ Phenolic resin)	900	4600	5500
2.	Paint & Varnishes	450	7050	7500
	Total	1350	11650	13000

Unit has valid consent under the different environmental Act issued by MPPCB. Industry falls under the category of 5(f) of schedule of EIA Notification, 2006 “Synthetic Organic chemical Industries” and categorized under “B” because as per the amended EIA Notification 25.06.2014, small scale industries of cat. 5(f) may consider B category if unit will fulfill criteria mention in the said notification. We hereby submit following justification for consideration of ‘B’ category:

<b>Sr. No.</b>	<b>Consideration of Industrial Category</b>	<b>Remark/Justification</b>
1.	Small scale industry i.e. Investment is less than 5 Crores.	Investment 3.5 Crores ( Existing 3.0 + 0.5 Cr. Proposed)
2.	Water consumption <25m <sup>3</sup> /day	Our total water consumption will be 9. KLD.
3.	Fuel consumption <25TPD	Our fuel consumption will be tune around 6 TPD (Agro waste/Agro Briquettes).
4.	Consideration of MAH as per MSIHC Rules, 1989.	Not a single raw material/product covered under the column-3 of Shedule-2 & 3 of MSIHC Rules, 1989. So industry is not covered under MAH unit.

The proposed expansion project is located at Plot No. 23-A, Sector-F, Industrial Area, Sanwer Road, Indore, Madhya Pradesh. Total plot area is 1890 sqm out of which 33% of the plot area will be developed as green area. At present the fresh water requirement is 2.2 kLD and after expansion the fresh water required at the plant will be 09 kLD will be sourced from the private water tankers. The waste water generation from the industrial process will be 02 kLD which will be treated in ETP and then will send to the CETP, Indore. The domestic waste water generation will be 1.5 kLD which will be disposed into septic tanks via soak pit. The power requirement for the proposed expansion will be 150 kVA will be supplied through M.P. Paschim Kshetra Vidhyut Vitaran Company Limited, Indore. Additionally, D.G. sets of 36 kVA (Existing) and 75 kVA (Proposed) will be used in case of emergency or power failure.

### **MAJOR EQUIPMENT TO BE INSTALLED:**

- Additional Reactors of 6 MT shall be installed along with the 12 MT of mixing Tank.
- Thermic Fluid Heat Exchanger of 600 Lakh Kcal shall be installed.
- Reactors shall be installed on 300 Sq.ft. vacant areas available in the existing plant.

### **ENVIRONMENTAL SENSITIVITY:**

<b>Sr. No</b>	<b>Description</b>	<b>Name</b>	<b>Distance</b>
1	Nearest Village	Sanwer Industrial Area	abutting
2	Nearest Town/ City	Indore	2 Km, SW
3	Nearest School	Navchetan Higher Secondary School	1 Km, W
4	Nearest Hospital	New life Hospital	1.5 Km, S
5	Nearest Post office	Sanwer linked post office	2.6 Km, SE

6	Nearest water body	Saraswati River	1.3 Km, SE
7	Nearest National Parks/ Sanctuary	Ralamandal wildlife Sanctuary	14.62 Km, SSE

**DETAILS OF RAW MATERIALS**

Sr. No.	Name of Raw Materials	Quantity (MT/MT)	Quantity (MTPA) After Expansion
<b>A.</b>	<b>Alkyd Resin</b>		
1.	Rosin Oil	0.400	2200
2.	Pentaerythritol	0.084	462
3.	Glycerine	0.079	434.5
4.	Phthalic Anhydride	0.205	1127.5
5.	Maleic Anhydride	0.018	99
6.	Benzoic acid	0.011	60.5
7.	Caustic Soda	0.001	5.5
8.	Triphenyl Phosphate	0.001	5.5
9.	Hypo Phosphorous Acid	0.001	5.5
10.	Xylene	0.020	110
11.	MTO	0.220	1210
<b>B.</b>	<b>Maleic/Phenolic Resin</b>		
1.	Rosin	0.833	4581.5
2.	Pentaerythritol	0.050	275
3.	Glycerine	0.056	308
4.	Bisphenol	0.056	308
5.	Paraformaldehyde	0.039	214.5
6.	Triphenyl Phosphate	0.001	5.5
7.	Maleic Anhydride/Phenol	0.077	423.5
<b>C.</b>	<b>Varnishes</b>		
1.	Resins	0.470	3525
2.	Synthetic Oil	0.180	1350
3.	Mineral Terpenmtille Oil	0.350	2625
<b>D.</b>	<b>Paints</b>		
1.	Pigments	0.150	1125
2.	Resins	0.330	2475

3.	Synthetic Oil	0.310	2325
4.	Mineral Terpenmtile Oil	0.210	1575

### **WATER REQUIREMENT & WASTEWATER GENERATION**

Sr. No.	Source	Water Consumption After expansion (KL/day)
1.	Domestic	3.0
2.	Green Belt	2.0
3.	Industrial	
A	Cooling	4.0
Total Industrial		4.0
Total (1 +2 + 3)		9.0

Sr. No.	Source	W/w Generation After expansion (KL/day)
1.	Domestic	1.5
2.	Industrial	
A	Process	0.5
B	Cooling	1.5
Total Industrial		2.0
Total (1 +2)		3.5 ~ 4.0

### **AIR EMISSION MANAGEMENT**

Sr. No.	Stack attached to	Fuel Type	Stack Height (m)	APC measures	Probable emission
<b>Existing</b>					
1.	Thermic Fluid Heater (3 Lakhs* kcal/hr.)	Bio Coal (Bio Briquette) - 2.0 TPD	30	Multi Cyclone Separator and Bag Filter	PM, SO <sub>2</sub> , NO <sub>X</sub>

2.	D G Set (36 KVA) (Stand by)	HSD: 8.0 lit/hr.	11	Acoustic Enclosure	
<b>Additional (Proposed)</b>					
1.	Thermic Fluid Heater (6 Lakhs kcal/hr.)	Bio Coal (Bio Briquette) -4.0 TPD	30	Multi Cyclone Separator and Bag Filter	PM, SO <sub>2</sub> , NO <sub>x</sub>
2.	D G Set (75 KVA) (Stand by)	HSD: 15.0 lit/hr.	11	Acoustic Enclosure	

### **WASTE MANAGEMENT**

Sr. No.	Type of Waste	Source	Category as per HWM rules, 2016	Quantity after Expansion	Method of Disposal
1.	Filter Cake (Primary Treatment)	Nutch Filter	35.3	2.4 MT/Year	Collection, Storage, Transportation, Disposal at TSDF
2.	Discarded Containers Liner/ Bags	Raw material	33.1	6000 No/ Year 4.8 MT/ Year	Collection, Storage, Transportation, Disposal by selling to Authorized Recycler.
3.	Used Oil	Plant machineries	5.1	0.200 KL/Year	Collection, Storage and reuse as lubricant
4.	Fly Ash	Thermic Fluid Heater	Non-Haz	2800 Kg/month	Sent to Brick Manufacturer

During presentation PP further submitted that the unit is in operation since 1996 with valid consent from MP Pollution Control Board. The unit does not require environment clearance under EIA notification 1994 as the investment was less than Rs.01.00 crores. Since unit proposing expansion in production capacity, it requires environment clearance under EIA notification 2006. After presentation, committee decided to recommend standard TOR prescribed by MoEF&CC with following additional TOR and as per annexure-D:

1. PP should provide entire product mix in the EIA report.

2. Worst case scenario w.r.t. waste water and hazardous waste should be submitted.
3. Classified glossary of all chemicals (includes raw materials, intermediates and products) with their compatibility for storage shall be discussed in the EIA report.
4. Details of solvents (names & quantity), their storage arrangements, proposed safety precautions, recovery plan and mitigation measures proposed for odor nuisance and spillage should be discussed in the EIA report.
5. VOC should be monitored in the AAQ.
6. MSDS of all chemicals (raw materials, intermediates and products) should be provided with the EIA report.
7. Industry has proposed that after primary treatment, the effluent will be sent to CETP for final treatment. Thus details of primary treatment proposed at site and commitment from CETP for accepting waste water shall be submitted with EIA report.
8. For thermicfluid heater, APC shall be proposed in such a way that the PM emission shall meet discharge norms of 50 mg/Nm<sup>3</sup> being unit is located in urban area.
9. Explore the possibility of using clean fuel (CNG) in place of Bio-briquette.
10. Compliance report of consent conditions from MP Pollution control Board.
11. Current status of disposal of all hazardous wastes and other wastes such as fly ash shall be discussed in EIA report with documentary evidences of their disposal.
12. Commitment of PP that water requirement will be meeting through tankers.
13. As per submitted mass balance, distilled water is being generated from the process. Explore if this water can be reused in the process.
14. Submit existing layout and justify that proposed layout with details of machinery to be added for the expansion is sufficient for proposed expansion as the area is 1166 sq. meters.
15. Details of any waste at present lying within the plant premises and if yes, same should be discussed in the EIA report with its disposal plan.
16. Under CER scheme with physical targets:
  - ✓ Proposal for CER activates should preferably be based upon Gram Panchayat Annual Action Plan and commitment made during public hearing (if public hearing is conducted)
  - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in nearby village area shall be proposed.

- ✓ PP's commitment that activities proposed in the CER and plantation scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.

17. Under Plantation Scheme with budgetary allocations:

- ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam/Van Samiti under monitoring and guidance of Forest Range officer / Gram Panchayat / Forest Department / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
  - ✓ Commitment that high density plantation (preferably using "Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by CCF, Social Forestry Circle or any other competent agencies.
18. Proposal for planting Khas slips, Nagarmotha, Katang Bamboo on the Khan river banks to prevent soil erosion.
19. How Zero Liquid Discharge shall be ensured?
20. Address odour nuisance of solvents (VOCs) in EIA report.
21. Fire protection plan w.r.t. VOCs.
22. Justify 10 times enhancement of the product output w.r.t. proposed machinery, reactors etc. in the layout.

2. **Case No 8574/2021 M/s Vista Sales Pvt. Ltd, Authorized Person, Shri Mahesh Kumar Verma, Near Takshshila School, 98, Rachna Nagar, Paras Apartment, Dist. Bhopal, MP Prior Environment Clearance for Sand Quarry in an area of 16.450 ha. (82250 cum per annum) (Khasra No. 1, 52, 402), Village - Imaliya, Tehsil - Barwara, Dist. Katni (MP)**

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 1, 52, 402), Village - Imaliya, Tehsil - Barwara, Dist. Katni (MP) 16.450 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Janpad Panchyat NOC, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekal Praman-Patra) letter No. 3294 dated



07/11/2020 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 36.74 ha., including this mine. During appraisal it was observed by the committee that lease is on Umrar River which is intersecting the lease at some places thus area occupied by the river shall be left as non mining area and revised production plan shall be submitted with EIA report. Being it's a case sand quarry with total area of 16.450 ha., including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

1. Revised plan shall be submitted with EIA report leaving submerged area as non-mining zone as part of lease is submerged in water.
2. Sand evacuation route avoiding human settlement shall be discussed in the EIA report.
3. The project proponent shall discuss the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area", and shall be discussed in the EIA report(if any).
4. Include activity with appropriate budget for reflectors installation, T-Junction Development where haulage road join with main pucca road and provision of speed breakers in the EMP.
5. In case of any road bridge in existence within the lease area or in near vicinity, mandatory safety distance shall be left as per Monitoring and enforcement Guidelines for sand mining, 2020 published by MoEF&CC and same shall be discussed in the EIA report in detail with proper justification.
6. Under CER scheme with physical targets:
  - ✓ Proposal for CER activates should preferably be based upon Gram Panchayat Annual Action Plan and commitment made during public hearing (if public hearing is conducted)
  - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in concerned village shall be proposed.

- ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under “Ujjwala Yojna” to them who are residing in the nearby villages, shall be considered.
- ✓ PP’s commitment that activities proposed in the CER and plantation scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.

7. Under Plantation Scheme with budgetary allocations:

- ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam/Van Samiti under monitoring and guidance of Forest Range officer / Gram Panchayat / Forest Department / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
- ✓ Commitment that high density plantation (preferably using “Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by CCF, Social Forestry Circle or any other competent agencies.
- ✓ Commitment that local palatable perennial grass species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose or through Gram Panchayat on suitable community land in the concerned village area.
- ✓ Proposal for planting Khas slips, Nagarmotha, Katang Bamboo on the river banks to prevent soil erosion.

**3. Case No 8595/2021 M/s Vista Sales Pvt. Ltd, Authorized Person, Shri Mahesh Kumar Verma, Near Takshshila School, 98, Rachna Nagar, Paras Apartment, Dist. Bhopal, MP Prior Environment Clearance for Sand Quarry in an area of 3.880 ha. (29100 cum per annum) (Khasra No. 1), Village - Khirwa, Tehsil - Vijayraghavgarh, Dist. Katni (MP)**

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 1), Village - Khirwa, Tehsil - Vijayraghavgarh, Dist. Katni (MP) 3.880 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Janpad Panchyat, DFO NOC, Tehsildar

Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, PFR & EMP for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekal Praman-Patra) letter No. 3297 dated 07/11/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine. During appraisal it was observed by the committee that part of the lease area is submerged in water for which PP submitted that sand will be evacuated only from the dry area as per the sand mining guidelines issued by the MoEF&CC. Committee after deliberation decided that PP shall submit revised production plan leaving submerged area as non mining area. After presentation committee asked PP to submit response on following issues including incomplete information provided in From-II, such as:

1. In point no. 17: Quantity of solid waste generated and its proposed disposal plan.
2. In point no. 35(10): Justify 0.5 million ton of top soil.
3. Revised risk assessment plan.
4. Detailed location specific green belt plan (remove ashwagandha) as the same is missing in submitted form-1.
5. Proposal for planting Khas slips, Nagarmotha, Katang Bamboo on the river banks to prevent soil erosion.
6. Commitment that no evacuation will be carried out through village/school area.
7. Revised EMP as suggested by committee.
8. Revised CER with physical targets as suggested by committee.
9. Pipe lines are proposed to fulfill water requirement, PP will submit a commitment that water will not be taken from the river and provide detailed plan to meet water requirement.

**4. Case No 8583/2021 M/s Black Rock, Sarkar Bazar, Kalupur, Dist. Ahmedabad, Guj., Prior Environment Clearance for Granite Quarry in an area of 4.51 ha. (Granite - 1845 cum per annum, Subgrade Mineral - 10455 cum per annum) (Khasra No. 256, 265, 266, 267, 268, 269, 363/1, 364/1, 364/2, 367, 368, 369, 371/min-1, 371/min-2), Village - Khadaura, Tehsil - Majhauri, Dist. Sidhi (MP)**

This is case of Granite Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 256, 265, 266, 267, 268, 269, 363/1, 364/1, 364/2, 367, 368, 369, 371/min-1, 371/min-2), Village - Khadaura, Tehsil - Majhauri, Dist. Sidhi (MP) 4.51Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office letter No. 235 dated 26/12/2020 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine with total area of 29.12 ha., including this mine.

During appraisal it was observed by the committee that some trees are in existence within the lease area thus PP shall submit its inventory (with girth class) and their management plan. During appraisal it was submitted by PP that no blasting is proposed in the and thus 100 meters setback will be left from the habitation area. Committee decided that PP shall submit commitment that no blasting will be carried out and 100 meters area will be left as non mining area from the habitation. Being it's a case Granite quarry with total area of 29.12 ha., including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

1. Commitment blasting shall not be carried out as proposed in the mine plan and in place of blasting, rock breaker will be used shall be attached with EIA report.
2. Revised production plan leaving 100 meters area as non mining area due to habitation and its protection plan shall be discussed in EIA report.
3. In non mining area and in 7.5m barrier zone dense plantation/wood log shall be developed (preferably using "Miyawaki Technique") with the concern CCF (R&E Circle Rewa).
4. Being both government and private land is involved in this project; its bifurcation shall be submitted with EIA report.
5. The project proponent shall discuss the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area", and shall be discussed in the EIA report.

6. Include activity with appropriate budget for reflectors installation, T-Junction Development where haulage road join with main pucca road and provision of speed breakers in the EMP.
7. Under CER scheme with physical targets:
  - ✓ Proposal for CER activates should preferably be based upon Gram Panchayat Annual Action Plan and commitment made during public hearing (if public hearing is conducted)
  - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in concerned village shall be proposed.
  - ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to them who are residing in the nearby villages, shall be considered.
  - ✓ PP's commitment that activities proposed in the CER and plantation scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.
8. Under Plantation Scheme with budgetary allocations:
  - ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam/Van Samiti under monitoring and guidance of Forest Range officer / Gram Panchayat / Forest Department / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
  - ✓ Commitment that high density plantation (preferably using "Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by CCF, Social Forestry Circle or any other competent agencies.
  - ✓ Commitment that local palatable perennial grass species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose or through Gram Panchayat on suitable community land in the concerned village area.

**5. Case No 8575/2021 Shri Sharda Rai S/o Shri Sitasharan Rai, Ward No. 3, Shahpura, Dist. Dindori, MP - 481990 Prior Environment Clearance for Stone Quarry in an area of 2.840 ha. (14000 cum per annum) (Khasra No. 99), Village - Shaktibhagdu Ryt, Tehsil - Shahpura, Dist. Dindori (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 99), Village - Shaktibhagdu Ryt, Tehsil - Shahpura, Dist. Dindori (MP) 2.840 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office (Ekal Praman-patra) letter No. 81 dated 12/4/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. During appraisal it was observed by the committee that as per Google image based on coordinates provided by PP a road is in existence at a distance of 430 meters in the southern eastern side and water body on the northern side at a distance of 380 meters. PP submitted that garland drains and settling tanks are proposed and only settled water will be discharged. During appraisal it was also observed by the committee that there are several mistakes in the form-II submitted by PP. After presentation committee asked PP to submit response on following issues including irrelevant/misleading information provided in From-II, such as:

1. In point no. such as 13.1, 14.5, 15, 16, 16.1, 27, 35(09) details are wrongly mentioned, please revise.
2. Permission letter to use ground water should be submitted by PP.
3. How PP will ensure continous water supply in the toilets proposed for workers.
4. Details of proposed garland drains and settling tanks.
5. Revised plantation species as suggested by committee (remove Amaltas, Khirni, Guava and add Munga for villagers)
6. Under CER scheme with physical targets:
  - ✓ Proposal for CER activates should preferably be based upon Gram Panchayat Annual Action Plan and commitment made during public hearing (if public hearing is conducted)

- ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle's health checkup etc. in concerned village shall be proposed.
- ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under "Ujjwala Yojna" to them who are residing in the nearby villages, shall be considered.
- ✓ PP's commitment that activities proposed in the CER and plantation scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.

7. Under Plantation Scheme with budgetary allocations:

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- ✓ Commitment that high density plantation (preferably using "Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by CCF, Social Forestry Circle or any other competent agencies.
- ✓ Commitment that local palatable perennial grass species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose or through Gram Panchayat on suitable community land in the concerned village area.

**6. Case No 6923/2020 M/s. Maa Narmada Crusher, Prop. SHri Ramlal Mandloi, Village - Borjhiri, Tehsil - Manawar, Dist. Dhar, MP – 454446 Prior Environment Clearance for Stone Quarry in an area of 2.90 ha. (8,416 cum per annum) (Khasra No. 46/1), Village - Sondul, Tehsil - Manawar, Dist. Dhar (MP).**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 46/1), Village - Sondul, Tehsil - Manawar, Dist. Dhar (MP) 2.90 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 2598 dated: 26/12/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for presentation, but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in 430<sup>th</sup> SEAC meeting dated 17/3/2020 & 432<sup>th</sup> SEAC meeting dated 18/5/2020. Committee decided that since sufficient opportunities has been given to the PP for appraisal of their case but PP remains absent thus committee decided that case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project. The case was discussed in 679<sup>th</sup> SEIAA meeting dtd 13/7/21 and it has been recorded that as per above observation of SEAC, it has been decided to delist the case on the condition that if PP intends to present the case in SEIAA it will then be relisted for appraisal.

PP vide letter dtd nil received in SEIAA office on 29.6/21 requested to relist the case by showing his interest to present the case. Therefore, it has been decided to relist the case and send the technical file to SEAC for appraisal.

The case was scheduled for presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call PP in the upcoming meetings giving another opportunity to present their case.

**7. Case No 7112/2020 Shri Mevendra Chouksey S/o Shri Govind Prasad Chouksey, Gram Panchayat – Dhanora, Tehsil – Ghansor, Dist. Seoni, MP – 480999 Prior Environment Clearance for Stone Quarry in an area of 2.40 ha. (Expansion from 4560 to 22,839 cum per annum) (Khasra No. 580), Village - Sajpani, Tehsil - Dhanaura, Dist. Seoni (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 580), Village - Sajpani, Tehsil - Dhanaura, Dist. Seoni (MP) 2.40 Ha. The project requires prior EC before commencement of any activity at site.



PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 124 dated 23.5.2020 has reported that there are no- more mines operating or proposed within 500 meters around the said mine.

Previously, the case was discussed in the 437<sup>th</sup> SEAC meeting dated 01/06/20 wherein it is recorded that *“During presentation as per Google image based on coordinates provided by PP, it was observed that this is old existing mine and excavated in the south side and this is a case of expansion from 4,560 cum/y to 22,839 cum /year and DEIAA had issued EC. After presentation the committee asked to submit following details:*

- *Compliance of earlier EC condition issued by DEIAA.*
- *Land ownership documents.*

Later on the case was recommended for delisting in the 455<sup>th</sup> SEAC meeting dated 16/9/20 wherein it is recorded that *“PP has not submitted desired information in the stipulated time even after given reminder letter. Hence, these cases are recommended by the committee for delisting in the light of MoEF&CC, O.M. File no. J-11013/5/2009-IA-II (Part), dated 30th October, 2012. 437th Meeting dated 01/06/2020. Qry., letter issued vide letter No. 321 dated 23/06/2020. Reminder 479 dated 02/09/2020 “.*

As per SEAC recommendation, SEIAA delisted the case in their 639<sup>th</sup> meeting dated 30/09/20. PP has requested to relist the case by showing his interest to present the case vide letter dated 15/6/21. After details discussion SEIAA in their 677<sup>th</sup> meeting dated 25/6/2021 decided to relist the case and send the technical file to SEAC for appraisal.

The case was scheduled for the presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

The case was scheduled for presentation, but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in 503<sup>th</sup> SEAC meeting dated 22/7/2021 & 502<sup>nd</sup> SEAC meeting dated 06/07/21. Committee decided that since sufficient opportunities has been given to the PP for appraisal of their case but PP remains absent thus committee decided that case

shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

8. **Case No 8441/2021 Shri Gajraj Singh S/o Shri Pritam Singh, Village - Damejar, Tehsil - Kailaras, Dist. Morena, MP Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (20000 cum per annum) (Khasra No. 953), Village - Damejar, Tehsil - Kailaras, Dist. Morena (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 953), Village - Damejar, Tehsil - Kailaras, Dist. Morena (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 459 dated: 19/03/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant wherein it was observed by the committee that it's a case of Stone mining. During presentation it was observed by committee that another mine is existence but MO has shown no mine within 500 meters around the said mine. After presentation PP was asked to submit Mining Officer Clarification regarding status of others mine seen within 500 meters of this mine. After presentation PP was asked to submit Mining Officer Clarification regarding status of others mine seen within 500 meters of this mine. PP's reply not received till date. Since the tenure of SEAC will be over on 09th April, 2021 and all such cases which are pending at SEAC will become category-I cases in the absence of SEAC. Thus case file is being sent to SEIAA for onward necessary action please.

The case was discussed in 679th SEIAA meeting dtd 13/7/21 and it has been recorded that.

*“to delist the case from MPSEIAA on the basis of the tenure of SEIAA will be over on 09<sup>th</sup> April, 2021 as per EIA Notification 2006 & its amendment “In the absence of a duly constituted SEIAA or SEAC, a Category ‘B’ project shall be treated as a Category ‘A’ project”.*

PP has submitted letter of Mining Officer, Morena (L.No. 595 dtd 09/4/21) vide letter dtd. Nil received in SEIAA Office on 29/6/21 and requested to relist the case. Therefore, it has been decided to relist the case and send technical file to SEAC for appraisal.

The case was scheduled for presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call PP in the upcoming meetings giving another opportunity to present their case.

**9. Case No 8578/2021 Shri Pankaj Singh S/o Shri Mansukh Lal Singh, Chankyapuri Colony, Hotel Pankaj, Dist. Satna, MP - 485001 Prior Environment Clearance for Murrum Quarry in an area of 1.620 ha. (20,000 cum per annum) (Khasra No. 325/2), Village - Matehna, Tehsil - Raghurajnagar, Dist. Satna (MP)**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 325/2), Village - Matehna, Tehsil - Raghurajnagar, Dist. Satna (MP) 1.620 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO , Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office letter No. 1446 dated 26/3/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine. During appraisal it was observed by the committee that as per Google image based on coordinates provided by PP site from the northern and eastern side is surrounded by habitation for which PP submitted that it's a Murrum quarry where blasting is not proposed hence shall be considered for EC. Committee deliberated and recommends that in any case PP has to maintain 100 meters distance from the habitation as per NGT order dated 21/07/20. PP submitted that they will leave 50 meters area as setback (non mining zone) and the habitation is 50 meters away from the lease. Committee after deliberations asked PP to submit revised surface/production map showing 50 meters setback in the lease and maintaining minimum 100 meters distance from the habitations. Committee further observed that apart from habitations, natural drain (approx. 150 meters Southern side),

River (approx. 550 meters Southern & southeastern side) and a water body (approx. 320 meters Eastern side). Committee also asked PP that the area which is proposed to be declared as non mining area due to habitations and in 7.5m barrier zone, dense plantation/ Wood Lot shall be developed (preferably using “Miyawaki Technique” with the concern CCF (R&E Circle Bhopal) for which a commitment shall be submitted specifically mentioning that even after mining in over, plantation will be maintained. During appraisal it was also observed by the committee that there are several mistakes in the form-II submitted by PP. After presentation committee asked PP to submit response on following issues including irrelevant/misleading information provided in Form-II, such as:

1. In point no. such as 13, 14.6, 15, 16, 16.1, 17, 27, 35(10) details are wrongly mentioned, please revise.
2. Committee that area which is proposed to be declared as non mining area due to habitations and in 7.5m barrier zone, dense plantation/ Wood Lot shall be developed (preferably using “Miyawaki Technique” with the concern CCF (R&E Circle Bhopal) for which a commitment shall be submitted specifically mentioning that even after mining in over, plantation will be maintained.
3. Revised plantation species as suggested by committee (add Mango, Amla, Lemon, Munga)
5. Under CER scheme with physical targets:
  - ✓ Proposal for CER activates should preferably be based upon Gram Panchayat Annual Action Plan and commitment made during public hearing (if public hearing is conducted). Quantification of furniture shall be proposed in CER.
  - ✓ Activities such as solar panels in school, awareness camps for Oral Hygiene, Diabetes and Blood Pressure, works related to plantation (distribution of fruit & fodder bearing trees) vaccination, cattle’s health checkup etc. in concerned village shall be proposed.
  - ✓ No fuel wood shall be used as a source of energy by mine workers. Thus proposal for providing solar cookers / LPG gas cylinders under “Ujjwala Yojna” to them who are residing in the nearby villages, shall be considered.
  - ✓ PP’s commitment that activities proposed in the CER and plantation scheme will be completed within initial 03 years of the project and in the remaining years shall be maintained shall be submitted with EIA report.

6. Under Plantation Scheme with budgetary allocations:

- ✓ Commitment that plantation shall be carried out preferably through Govt. agency (such as Van Vikas Nigam/Van Samiti under monitoring and guidance of Forest Range officer / Gram Panchayat / Forest Department / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
- ✓ Commitment that high density plantation (preferably using “Miyawaki Technique or WALMI technique) shall be developed in 7.5m barrier zone left for plantation by CCF, Social Forestry Circle or any other competent agencies.
- ✓ Commitment that local palatable perennial grass species shall be planted for grassland/fodder development on degraded forest land suitable for the purpose or through Gram Panchayat on suitable community land in the concerned village area.

**10. Case No 8579/2021 Shri Vijendra Tebe S/o Shri Ramesh Chandra Tebe, 297, Himatapura, Ward No. 02, Gram & Tehsil -Polaykalan, Dist. Shajapur, MP - 465116 Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (20315 cum per annum) (Khasra No. 300, 301), Village - Nipaniya Hur -Hur, Tehsil - Sonkatch, Dist. Dewas (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 300, 301), Village - Nipaniya Hur- Hur, Tehsil - Sonkatch, Dist. Dewas (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate, Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office letter No. 1202 dated 21/6/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call PP in the upcoming meetings giving another opportunity to present their case.

**11. Case No 8596/2021 Shri Ashok Patidar S/o Rameshchandra Patidar, Village – Khokhrakalan, Tehsil – Kalipipal, Distt. Shajapur Prior Environment Clearance for Stone Quarry in an area of 1.0 ha (5000 Cum per annum) (Khasra No. 25/16), Village – Chakranbad, Tehsil – Kalipipal, Distt. Shajapur (M.P.)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 25/16), Village – Chakranbad, Tehsil – Kalipipal, Distt. Shajapur (M.P.) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by PP and their Consultant. During presentation, PP showed various documents such as lease sanction order, Gram Sabha, DFO NOC, Tehsildar Certificate, MO Certificate. Approved Mine Plan, Khasra Panchshala, P-II, DSR, EMP & PFR for appraisal of project before the committee. It was observed by Committee that as per Collector Office letter No. 784 dated 01/6/2021 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. However, it was brought to the notice of committee that PP vide letter dated 11/08/21 has submitted a request for withdrawal of their application for grant of EC. Committee after deliberations recommends that on the basis of PP's request case may be considered for withdrawal and case file may be sent to SEIAA for onward necessary action please.

**12. Case No 8553/2021 M/s Visag Biofuels Pvt. Ltd, Kalptaru Mall (Shree Ji), Maahaveer Chowk, Dist. Balaghat, MP – 481001 Prior Environment Clearance for Grain Based Fuel Ethanol Unit of 195 KLD, 4.0 MW Co-generation Power Plant, By Product : 150 TPD of CO<sub>2</sub> & Recoverable @75 TPD Generation & 112.08 TPD of DDGS, Total Land - 12.745 Ha at Khasra no. 167, Village - Devri, Tehsil & Dist. Balaghat (MP).**

This is case of Prior Environment Clearance for Base fuel ethanol unit of 195 KLD, 4.0 MW Co-generation power plant, By product : 150 TPD of CO<sub>2</sub> & Recoverable @75 TPD Generation & 112.08 TPD of DDGS, Total Land - 12.745 Ha at Khasra no. 167, Village - Devri, Tehsil & Dist. Balaghat (MP).

The case was presented by PP and their consultant before the committee wherein following details were provided through presentation:

- M/s Visag Biofuel Pvt. Limited has proposed grain based 195 KLD of fuel ethanol unit with cogeneration of power (4.0 MW) at Village Devri Tehsil & Dist Balaghat MP.
- The by product is identified as CO<sub>2</sub> -150 TPD (Recoverable @ 50% of total generated), DDGS- 112.08 TPD from the proposed unit.
- Copy of request submitted to WRD, Bhopal seeking permission for drawl of water. The water abstraction is proposed from Ghirsi River.
- Copy of online NOC issued by Office of DFO, Balaghat.
- Copy of Land allotment letter dated 06/04/21 issued by MPIDCL, Bhopal.
- Copy of letter dated 06/04/21 issued by EE, PWD, Balaghat for distance from interstate boundary.
- Copy of P-II from.
- Proposed layout of the unit.
- P.F.R. of the project.

PP submitted that they have submitted notarized affidavit dated 17/06/21 that proposal is for manufacturing fuel ethanol only for the purpose of “Ethanol Blending Programme” (EBP) and will be “Zero Liquid Discharge”, as per the condition given in the gazette notification SO 2339 dated 16<sup>th</sup> June 2021 Hence submitted the proposal under B-2 Category.

### **Salient Features of the Project:**

<b>Features</b>	<b>Proposed</b>
Site Address	Khasar no 167, Village Devri, Tehsil & Dist Balaghat (MP)
Proposed Production Capacity	195 KLD fuel Ethanol Unit
Cost Of Project	Rs. 169 Crores
Grain Requirement	446 MT (approx. 450 MT per day)
Boiler Capacity At MCR (100% Load)	40TPH
Boiler capacity at MCR (100% Load)	49 TPH
Steam Requirement	34 TPH @ 3.5 kg/cm <sup>2</sup> (g)
Fuel	325 TPD as rice husk
Total Water Requirement	3234 KLD
Total Fresh water Requirement	1200 KLD ( 6.1 KL per KL of Alcohol)

Spent Wash Generation	1260TPD
Power Requirement	4000 KWhr
Capital Cost for Environmental measures	Rs 3179 Lacs
Recurring cost for environmental Management (Proposed)	Rs 106 Lacs
Alternative Source of Power	DG set of 750KVA
Land acquired	12.745 Ha
Land required for plant and building	6.00 Ha
Proposed area for plantation	4.50 Ha
Direct Employment Generation	67 + 95

During presentation as per the Google image based on coordinates provided by PP, it was observed that some trees are in existence within the project boundary on the southern side for which PP submitted that area occupied by trees is left as green area in the proposed layout. PP further submitted that various units are designed in such a way that existing trees will not be uprooted. Further, the proposed site is surrounded by a natural stream from the eastern and southern side for which PP submitted that 200 m area is left as green area from all sides as barrier zone. For habitations on the north, north-east and western side of the proposed unit, PP submitted that 300 meters area is left as no development area. Committee during discussion recommends that the area which is towards natural stream and habitation, dense plantation of native species shall be carried out using preferably by “Miyawaki Technique”, in consultation and executed by concerned DFO. Committee further suggested that before onset of monsoon season, local fruit bearing tree saplings (such as Bel, Harra, Bahera, Amla, Nimbu, Kathal, Mango etc) shall be distributed in nearby villagers to promote plantation from social forestry nursery /Government Horticulture nursery.

During presentation, PP submitted that excess steam will be used for power generation and 50% of CO<sub>2</sub> shall be scrubbed, collected in closed vessels and will be sold out. Committee after deliberations recommends that no volume of CO<sub>2</sub> shall be release in the environment and 100% CO<sub>2</sub> shall be scrubbed, collected in closed vessels and will be sold out. The generated ash shall be disposed for tiles and paver block making. To



avoid fugitive emission, no land filling in nearby low lying area is permitted. After presentation committee asked PP to submit following additional information:

1. Revised plantation scheme as suggested by committee.
2. Provisions proposed for Odor management.
3. Distance of river & habitation from main plant and from treatment system.

PP Vide letter dated 29.6.2021 submitted query reply. The presentation and other submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Grain Based Fuel Ethanol 195 KLD, 4.0 MW Co-generation Power Plant, By Product: 150 TPD of Recoverable CO<sub>2</sub> & 112.08 TPD of DDGS on 12.745 Ha land at Khasra no. 167, Village -Devri, Tehsil & Dist. Balaghat (MP), subject to the following special & general conditions:

**A. Project Specific Conditions**

- i. Fermentation system shall be based on SSF (Simultaneous Saccharification and Fermentation) Technology and Distillation Plant shall be based on Multi-Pressure Distillation Technology operating on fully automated PLC control system.
- ii. Drier shall be provided to get dry Distillery Distilled Grain Soluble (DDGS).
- iii. 100% CO<sub>2</sub> shall be trapped, stored and utilized appropriately.
- iv. For one KL of fuel ethanol production, maximum water requirement shall not exceed 6.50 KL and spent wash shall not exceed 7.00 KL.

**1. Air quality monitoring and preservation**

- i. Adequate numbers of Bag filters (pulse jet type)/ESP shall be provided in boiler (cap. 40TPH) stack to meet the emission norms 50 mg/Nm<sup>3</sup>. Appropriate APC system shall also be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed fugitive emission standards by MP Pollution Control Board.
- ii. The gaseous emissions shall be dispersed through stack of adequate height (minimum 30 meters) as per CPCB/SPCB guidelines. Stack height shall be tested for emission of PM and SO<sub>2</sub> and height shall be kept maximum.

- iii. The project proponent shall install 24×7 continuous real time emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed by M P Pollution Control Board. Continuous Emission Monitoring System shall be connected to the online servers of “Environmental Surveillance Centre”, MPPCB, Bhopal and CPCB and shall be calibrated as per the specified norms.
- iv. The project proponent shall carryout ambient air quality monitoring for relevant parameters within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions with respect to standards prescribed by M P Pollution Control Board and as prescribed in National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009.
- v. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable).
- vi. The DG sets (750 KVA) shall be equipped with acoustic enclosures & muffles and the adequate stack height as per CPCB norms so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- vii. Storage of raw materials, coal, fly ash etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- viii. All the internal roads shall be made pucca to avoid fugitive emission.
- xi. For odour management, Ecosorb shall be used and storage area shall be made ventilated.

## **2. Water quality monitoring and preservation**

- i. For online continuous monitoring of influent and effluent, the unit shall install PTZ web based camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises and same shall be connected to “Environmental Surveillance Centre”, MPPCB, Bhopal and CPCB online servers.

- ii. Zero Liquid Discharge shall be ensured through Dryer (1200 kg/hr.), MEE (cap. 41 m<sup>3</sup>/hr), CPU (cap. 25m<sup>3</sup>/hr) and RO (cap. 25m<sup>3</sup>/hr) and no waste/treated water shall be discharged outside the premises. DM plant shall be provided only after RO unit.
- iii. The waste water generated from utilities like cooling bleed, Boiler blow down etc shall also be taken to ZLD system and no discharge of such water shall be allowed.
- iv. Process effluent/any wastewater shall not be allowed to mix with storm water. Catch drain connected to settling tanks of suitable size all around the working shed shall be provided and the collected discharge shall be treated in MEE & dryer.
- v. Similarly, another catch drain connected to settling tanks of suitable size (considering maximum rainfall in the area) shall be provided all around the factory premises as secondary containment system and the collected discharge shall be treated in MEE & dryer. Khus slips shall be planted along drain.
- vi. Total fresh water requirement shall not exceed 1200 KLD. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- vii. The effluent shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the MP Pollution Control Board while granting Consent under the Water (P & C) Act, 1974 whichever is more stringent.

### **3. Waste management**

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. DDGS shall be stored and disposed off as per the submitted proposal. In any case DWGS shall not be disposed off and stored in premises.
- iii. All hazardous wastes shall be stored in covered shed as per CPCB guidelines and disposed off as per authorization issued by MP Pollution Control Board.
- iv. The boiler ash shall be stored in accordance with fly ash notification and disposed off for tiles and paver block making.

- v. The company shall undertake waste minimization measures as below:-
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

**4. Noise monitoring and prevention**

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

**5. Green Belt**

- i. Green belt shall be developed in an area equal to 33% of the plant area (4.50 ha. which is 35.31% of total area) with a 9000 native tree species in accordance with CPCB guidelines.
- ii. As proposed by PP, thick greenbelt of native species shall be provided inter alia covering the entire periphery of the plant using “Miyawaki Technique”, in consultation with concerned DFO/ CCF, Research & Extension Circle, Bhopal / Jabalpur or WALMI, Bhopal.
- iii. No tree falling is permitted within plant premises.
- iv. Khus Grass shall be planted along the Ghirsi River and other nearby tributaries.

**B. General Conditions**

**1. Statutory compliance**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

- ii. The project proponent shall obtain clearance from the National Board for Wildlife. (if applicable)
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (In-case of the presence of schedule-I species in the study area)
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the M.P. Pollution Control Board.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time from the M.P. Pollution Control Board.
- vii. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- viii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of MPPCB and “Environmental Surveillance Centre”, MPPCB, Bhopal along with six-monthly monitoring report.

**1. Energy Conservation measures**

The energy sources for lighting purposes shall preferably be LED based.

**3. Safety and Human health issues**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

**4. EMP & Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM no. 22-65/2017/IA-III dated 30.09.2020, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms /conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP (Rs. 3179.05 Lakhs as capital & Rs. 105.83 lakhs as recurring) has proposed.

- v. Environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- vi. Under CER programme, concerned DFO shall also be consulted for any tree planting activity like native densification of trees within plant premises or selection of native plant species etc.
- vii. All social activities conducted under CER shall be displayed on the company's website with three months interval and updated regurly.
- viii. CER activities in forest villages and project adjoining areas shall be conducted and executed by State Forest Department.
- ix. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

**5. Miscellaneous**

- i. The project proponent shall monitor the criteria pollutants level namely; PM10, SO<sub>2</sub> , NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- ii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- iv. The project authorities must strictly adhere to the stipulations made by the MP Pollution Control Board and the State Government.
- v. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.
- vi. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

- vii. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

The case was discussed in 678<sup>th</sup> SEIAA meeting dtd 12/7/21 and it was recorded that:

“After the recommendation of 501<sup>st</sup> SEAC meeting dtd 29/8/21, the case was scheduled for presentation and after deliberation it was decided to send the case to SEAC for re-appraisal on the basis of following.

- a) It was observed by Authority, PP has applied for 195 KLD fuel Ethanol Unit. However, many places of the supporting documents of the application mentioned 60 KLD. PP should submit all corrected documents in SEAC such as Master Plan Layout, Techno-Commercial Proposal for supplies of various systems etc.
- b) It was also noted that the project site located approx 30 m from the adjacent river, PP should obtain HLF from the WRD and submit for clarification of the proper location site in the said project data of flooding of the area for last five years should also be submitted.
- c) How to achieve Zero liquid discharge in rainy season?
- d) Measures for Odor nuisance, Land pollution.
- e) Justification for CO<sub>2</sub> scrubbing 100%.
- f) Landscaping planning of the project site.
- g) Domestic waste water treatment instead of septic tank or soak pit should be provided by PP.
- h) Local need based CER activities.
- i) Revised Affidavit submitted during submission of application.



In view of above, the technical file sent to you for further consideration and you are also requested to kindly consider the case as per MoEF & CC Notification dtd. 16/6/21 paragraph 4 after sub-paragraph (iiia)”.

The case was scheduled for presentation but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. However, it was brought to the notice of committee that PP vide letter dated 09/08/21 has submitted a request for withdrawal of their application for grant of EC. Committee after deliberations recommends that on the basis of PP’s request case may be considered for withdrawal and case file may be sent to SEIAA for onward necessary action please.

**(A. A. Mishra)**  
**Member Secretary**

**(Dr. Praveen Chandra Dubey)**  
**Chairman**

**Annexure- 'A'**

**Standard conditions applicable to Stone/Murum and Soil quarries:**

1. Mining should be carried out as per the submitted land use plan and approved mine plan.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and fenced from all around the site. Necessary safety signage & caution boards shall be displayed at mine site.
3. Overhead sprinklers arrangements with solar pumps or tanker sprinkles should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road as proposed. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
5. Mineral evacuation road shall be made pucca (WBM/black top) by PP.
6. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
7. Crusher with inbuilt APCD & water sprinkling system shall be installed minimum 100 meters away from the road and 500 meters away from the habitations only after the permissions of MP Pollution Control Board with atleast 04 meters high wind breaking wall of suitable material to avoid fugitive emissions.
8. Working height of the loading machines shall be compatible with bench configuration.
9. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
10. The OB shall be reutilized for maintenance of road. PP shall bound to comply the final closure plan as provided in Mining Plan duly approved by the competent authority.
11. Thick plantation shall be carryout in the periphery/barrier zone of the lease, mineral evacuation road and common area in the village. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
12. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
13. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
14. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
15. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

16. To avoid vibration, no overcharging shall be carried out during blasting and muffle blasting shall be adopted. Blasting shall be carried out through certified blaster only and no explosive will be stored at mine site without permission from the competent authority.
17. Blasting shall be carried out only during day time and PP must ensure that biological clock of the nearby villager is not disturbed due to mining operation.
18. Mine water should not be discharged from the lease and be used for sprinkling & plantations. For surface runoff and storm water garland drains and settling tanks (SS pattern) of suitable sizes shall be provided.
19. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
20. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
21. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
22. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
23. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
24. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
25. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
26. PP shall develop its own website to display various mining related activities proposed in EMP & CER along with budgetary allocations. Which shall be updated every 03 months? All the six monthly progress report shall also be uploads on this website along with MoEF&CC & SEIAA, MP with relevant photographs of various activities such as garland drains, settling tanks, plantation, water sprinkling arrangements, transportation & haul road etc. PP or Mine Manager shall be made responsible for its maintenance & regular updation.
27. All the soil queries, the maximum permitted depth shall not exceed 02 meters below general ground level & other provisions laid down in MoEF&CC OM No. L-11011/47/2011-IA.II(M) dated 24/06/2013.
28. The mining lease holders shall after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Moreover, A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.

29. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled “Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.
30. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
31. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
32. A display board with following details of the project is mandatory at the entry to the mine.
  - a. Lease owner’s Name, Contact details etc.
  - b. Mining Lease area of the project (in ha.)
  - c. Production capacity of the project.

**Annexure- ‘B’**

**Standard conditions applicable for the Sand Mine Quarries\***

1. District Authority should annually record the deposition of sand in the lease area (at an interval of 100 meters for leases 10 ha or > 10.00 ha and at an interval of 50 meters for leases < 10 ha.) before monsoon & in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority shall allow lease holder to excavate only the replenished quantity of sand in the subsequent year.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars. Necessary safety signage & caution boards shall be displayed at mine site.
3. Overhead sprinklers arrangements with solar pumps or tanker sprinkles should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road as proposed. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. PP shall ensure that productivity of agriculture crop not affected due to mining operations & crop liability Insurance Policy shall be taken up by PP as a precaution to compensate for any crop loss.
5. Only registered vehicles/tractor trolleys with GPS which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
6. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
7. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
8. Sand and gravel shall not be extracted up to a distance of 1 kilometer (1Km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
9. Mining depth should be restricted to 3 meters or water level, whichever is less and distance from the bank should be 1/4<sup>th</sup> or river width and should not be less than 7.5 meters. No in-stream mining is allowed. Established water conveyance channels should not be relocated, straightened, or modified.
10. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.

11. PP shall carry out independent environmental audit atleast once in a year by reputed third party entity and report of such audit be placed on public domain.
12. No Mining shall be carried out during Monsoon season.
13. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF&CC ensuring that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
15. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
16. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
17. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
18. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
19. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights. All these facilities such as rest shelters, site office etc. Shall be removed from site after the expiry of the lease period.
20. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
21. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
22. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
23. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
24. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.

25. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
26. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
27. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
28. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
28. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
29. A display board with following details of the project is mandatory at the entry to the mine.
  - a. Lease owner's Name, Contact details etc.
  - b. Mining Lease area of the project (in ha.)
  - c. Production capacity of the project.
29. Following conditions must be implemented by PP in case of sand mining as per NGT (CZ) order dated 19/10/2020 in OA NO. 66/2020 and SEIAA's instruction vide letter No. 5084 dated 09/12/2020.
  - i. The Licensee must use minimum number of poclains and it should not be more than two in the project site.
  - ii. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
  - iii. The ultimate working depth shall be 01 m from the present natural river bed level and the thickness of the sand available shall be more than 03 m the proposed quarry site.
  - iv. The sand quarrying shall not be carried out blow the ground water table under any circumstances. In case, the ground water table occurs within the permitted depth at 01 meter, quarrying operation shall be stopped immediately.
  - v. The sand mining should not disturb in any way the turbidity, velocity and flow pattern of the river water.
  - vi. The mining activity shall be monitored by the Taluk level Force once in a month by conducting physical verification.
  - vii. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry. The roads/pathways shall be leveled to let the river resume its normal course without any artificial obstruction to the extent possible.
  - viii. The mined out pits to be backfilled where warranted and area should be suitable landscaped to prevent environmental degradation.
  - ix. PP shall adhere to the norms regarding extent and depth of quarry as per approved mining plan. The boundary of the quarry shall be properly demarcated by PP.

**Annexure- ‘C’**

**Standard conditions applicable for the Sand deposits on Agricultural Land/ Khodu Bharu Type Sand Mine Quarries\***

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
3. The mining shall be carried out strictly as per the approved mining plan.
4. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and necessary safety signage & caution boards shall be displayed at mine site.
5. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
6. The mining activity shall be done as per approved mine plan and as per the land use plan submitted by PP.
7. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
8. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
9. PP shall ensure that productivity of agriculture crop not affected due to mining operations & crop liability Insurance Policy shall be taken up by PP as a precaution to compensate for any crop loss.
10. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
11. No Mining shall be carried out during Monsoon season.
12. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
13. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
14. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
15. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
16. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.

17. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
18. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
19. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
20. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
21. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
22. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
23. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
24. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
25. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
25. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
26. Mining Lease boundary shall be appropriately earmarked with fencing.
27. A display board with following details of the project is mandatory at the entry to the mine.
  - a. Lease owner's Name, Contact details etc.
  - b. Mining Lease area of the project (in ha.)
  - c. Production capacity of the project.

**Annexure- 'D'**

**General conditions applicable for the granting of TOR**

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. During monitoring, photographs shall be taken as a proof of the activity with latitude & longitude, date, time & place and same shall be attached with the EIA report. A drone video showing various sensitivities of the lease and nearby area shall also be shown during EIA presentation.
3. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
4. An inventory of flora & fauna based on actual ground survey shall be presented.



5. Risk factors with their management plan should be discussed in the EIA report.
6. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
7. The EIA document shall be printed on both sides, as far as possible.
8. All documents should be properly indexed, page numbered.
9. Period/date of data collection should be clearly indicated.
10. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
11. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
12. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
13. Grant of TOR does not mean grant of EC.
14. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared. If consultant has engaged other laboratory for carrying out the task of monitoring and analysis of pollutants, a representative from laboratory shall also be present to answer the site specific queries.
15. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
16. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
17. All the necessary NOC's duly verified by the competent authority should be annexed.
18. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
19. The EIA report should clearly mention activity wise EMP and CER cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CER cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
20. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
21. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
22. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
23. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
24. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006. The issues raised in public hearing shall be properly addressed in the EMP and suitable budgetary allocations shall be made in the EMP and CER based on their nature.

25. Actual measurement of top soil shall be carried out in the lease area at minimum 05 locations and additionally N, P, K and Heavy Metals shall be analyzed in all soil samples. Additionally in one soil sample, pesticides shall also be analyzed.
26. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
27. PP shall submit biological diversity report stating that there is no adverse impact in- situ and on surrounding area by this project on local flora and fauna's habitat, breeding ground, corridor/ route etc. This report shall be filed annually with six-monthly compliance report.
28. The project proponent shall provide the mitigation measures as per MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area" with EIA report.

**FOR PROJECTS LOCATED IN SCHEDULED (V) TRIBAL AREA , following should be studied and discussed in EIA Report before Public Hearing as per the instruction of SEIAA vide letter No. 1241 dated 30/07/2018.**

29. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
30. Detailed analysis of availability and quality of the drinking water resources available in the block.
31. A study by CPCB of the methodology of disposal of industrial waste from the existing industries in the block, whether it is being done in a manner that mitigate all health and environmental risks.
32. The consent of Gram Sabha of the villages in the area where project is proposed shall be obtain.